

PHYSICAL ADDRESS MAPPING FRAMEWORK

ABSTRACT OF THE DISCLOSURE

5 Provided is a method and apparatus for registering requests to access physical
memory in a physical address mapping framework. Specifically, a device can register
in the physical address mapping framework before accessing physical memory, thus
permitting an operating system to identify the device when it is necessary to relocate
pages in physical memory. The physical address mapping framework can be any
10 structure that permits registration. For example, the structure can be a list or a tree.
When relocating physical memory, all accesses registered in the physical address
mapping framework are restricted. Then, the device is notified to stop accessing
physical memory via information stored in the physical address mapping framework.
After the relocation, the device is notified to resume accessing physical memory via
15 information stored in the physical address mapping framework.

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